XLTX™ Bellybox Transmitter
Frequently Asked Questions

Q: Is the XLTX backwards compatible with my existing system?

A: The XLTX was designed to replace the Telemotive JLTX and Enrange 700T transmitters. The XLTX will be compatible with:

1. Telemotive systems that consist of an 18K and in*tele*Smart receivers.
2. Enrange systems that consist of a 30R, 500R, and Flex M receiver.

NOTE: The Telemotive XLTX is NOT compatible with past PulseStar or Hetronic radio equipment.

Magnetek will work with existing customers on a case-by-case basis for systems not listed above.

Q: What are some of the advantages that the Telemotive XLTX offers compared to our other bellybox transmitters and those of our competitors?

A: The XLTX comes standard with a graphic display that keeps the operator informed of system status at all times. It makes configuring access codes, channels, and other system settings simple. The transmitter can be configured without opening the box and exposing the internal electronics to a harsh environment. It is also able to be configured with a wide variety of controls consisting of paddles, joysticks, toggle switches, key switches, code plugs, and selector switches.

The display also provides system diagnostics such as confirming active commands, RF health, low battery, and more.

Q: How durable is the XLTX?

A: The XLTX is one of the most durable bellybox transmitters on the market:

1. The housing is made of the latest polymer technology, a super-tough nylon, and was designed to exceed the physical properties of the highly durable MLTX transmitter.
2. The super-tough nylon absorbs an impact and returns to its original shape.
3. Basic XLTX transmitters are rated to NEMA 4 (IP66).
4. Rugged, durable housing and sealed electronics compartment are extremely resistant to chemicals, heat, and abusive industrial environments.
5. Easy to handle paddle and joystick controls are sealed to withstand harsh environments and are rated to 5 million cycles
6. The units have been "Drop and Shock" tested to IEC standards.

Q: What is the weight of the transmitter?

A: Approximately 5 pounds depending on the configuration of paddles, joysticks, and toggles. The XLTX weight is similar in weight to our JLTX and 700T transmitter.

Q: Does the XLTX offer two-way feedback?

A: Yes, two-way feedback is available as an option. The graphic display can show hoist load weight, drive diagnostic information, Received Signal Strength Indication (RSSI), and other information as required by the application.

For example, monitoring the load weight is especially useful when multiple hoists of the same or different capacities (main and auxiliary) are used on a crane. The operator could easily attempt to lift a load on the auxiliary hoist that should only be lifted on the main.

Similarly, the operator could attempt a tandem lift that exceeds the rating of both hoists. The two-way display feature can display the weight on both hoists allowing the operator to verify the weight instead of guessing which could prevent damage to the hoist or crane and avoid a serious accident. The XLTX can also be configured to display a warning and sound an alarm should the weight exceed safe operating limits. Magnetek offers a load weight solution by outputting a signal (0-10VDC) from our IMPULSE VG+ VFDs that corresponds to the load weight. The load weight display feature can also work with most scales systems. Consult your local sales representative for more information.

The two-way RSSI feature works similar to the number of bars on your cell phone. The stronger the signal is, the more bars you'll have and vice versa.

The XLTX can be customized to display various other forms I/O such as inputs from limit switches and serial data from PLCs. It is not limited to working with drives only. Please consult the factory for custom applications.

Q: Has Magnetek tested the new XLTX in the field?

A: We have beta tested the new XLTX in many different environments, including:

1. High Ambient Temperature Environments – Although we tested the XLTX in high temperature applications (and found that the transmitter electronics performed well and housing integrity withstood the heat) because this is a plastic transmitter we do not recommend the XLTX for hot metal environments. Our SLTX, constructed of aluminum, is more suitable for this type of application.

2. High Duty Cycle Locations – Cranes in high duty cycle locations are typically CMAA Class D or higher cranes. In this application, the switches, both lever and auxiliary endured the high cycling without incident.

3. Radio Frequency Noisy Environments – nuclear shipyards, pot lines, and welding facilities all produce high RF noise in their environment. Our new synthesized transmit module cut through the RF noise. The transmitter has exceeded the customer's expectations, enabling them to increase their production.

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Q: What other testing has been conducted on the XLTX?

A: A variety of tests have been performed, including:

1. Boards and individual components have been tested for over a year including shock and vibration testing.
2. Primary motion lever switches were tested to over 5 million operations.
3. The product was subjected to a variety of water and drop test according to IEC (International Electrotechnical Commission) standards.

Q: How is the XLTX programmed and configured for each system?

A: All the necessary configuration parameters such as access codes, RF channel, a/b/both operation, user modes, and more are programmed on the display through a password activated "Setup Menu". ". For those systems without a display, dipswitches can be used for basic settings. Access to the dipswitch and USB port for using RCP is provided via removal of a small window on the bottom of the unit. This means that the entire enclosure does not need to be taken apart to access these features. Magnetek's Radio Control Programmer (RCP) software package option can also be utilized to configure the transmitter. RCP also offers the ability to save configurations to allow for quick and easy programming of replacements units.

Q: What are the frequency options for Telemotive XLTX?

A: XLTX is designed with electronically synthesized frequency generation—you can easily change frequencies in the field. Frequencies are selectable via Setup Mode on the graphic display. Please note that the receiver settings must always match.

1. Unlicensed (Part 15) TMS, TDMA operations – 32 channels in a range of 430-439.8 and 902-928 MHz.
2. Unlicensed (Part 15) FHSS operations – 32 channels in a range of 902-928MHz and 2.4-2.5 GHz.
3. Licensed (Part 90) VHF operations – 400 frequencies in a range of 72-76 MHz.
4. Licensed (Part 90) UHF operations will be available.

Q: What transmission options are available?

A: The new XLTX is available in TMS, TDMA, FHSS, and Continue Carrier transmission options.

Q: What does TMS, TDMA, FHSS, and Continuous Carrier mean?

A: These terms describe the way that messages are sent from the transmitter to the receiver.

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1. TMS (Time Multiplexed Signaling) is our current standard offering and is available for both Part 15 (unlicensed) and part 90 (licensed) systems. TMS is Magnetek's proprietary high-speed packet data system that transmits data in pulses. The length of the pulse is referred to as a data burst or packet. The packet length is a function of the quantity of data to be sent, and the data rate (baud). The system software is structured to minimize "on the air" transmission time of any transmitter. This allows up to 4 transmitters to share and have equal access to the same frequency, and also allows for reduced battery consumption and extended battery life.

2. TDMA (Time Division Multiple Access) is only available for part 90 (licensed) systems. TDMA is similar to TMS with transmissions of high-speed data pulses, but it also has access codes (usually controlled with a code plug) and master codes that allow the receivers to know which transmitters are intended to operate the system. TDMA is application specific software and is ideal for crane systems that have a carrier that will move to multiple bridges. This signaling format allows operators to share carriers and bridges, while having the complete security of only one operator controlling multiple carriers and bridges.

3. FHSS (Frequency Hopping Spread Spectrum) is available for part 15 (unlicensed) systems in the 902-928 MHz and 2.4GHz bands. The frequency hopping protocol does not use one particular channel to relay a message but many. Small portions of each message are transmitted over a predefined sequence of 50 rapidly changing carrier frequency sets. In doing so, this protocol is able to compensate for narrow band interference that may be present at various operating frequencies by sending the message 'around' the interference. This transmission option has the longest range of operation. (up to 3000 ft. / 924 m)

4. Continuous Carrier is only available for part 90 (licensed) systems. Continuous signaling means the transmitter is continuously transmitting whether or not a lever or function is activated. Continuous carrier systems tend to be older systems. They also have the shortest battery life.

Q: Is the high-powered 750 mW synthesized RF board available?

A.   No, the XLTX offers 900MHz and 2.4GHz FHSS 200 mW versions for long range operations. The range will be very comparable to 750mW VHF versions. The range is approximately 3000 ft. Refer to the technical specifications for more information.

Q: What types of batteries are available for the XLTX?

A: The XLTX provides two different battery options. The first option is an 'AA' Alkaline pack that allows the user to install off the shelf batteries (3 'AA') as needed. A rechargeable battery option is also available.

Q: Is the XLTX available with joysticks?

A: Yes. The new joysticks on the XLTX can utilize one to five detents on both dual and single axis versions for a smooth, precise operation. Cross gating and multi-shaped handles are also available.
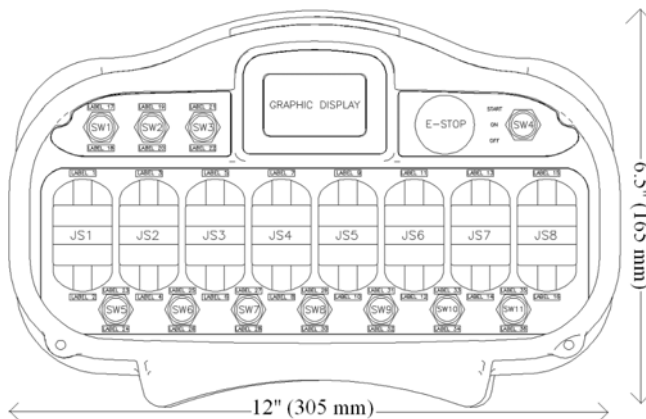
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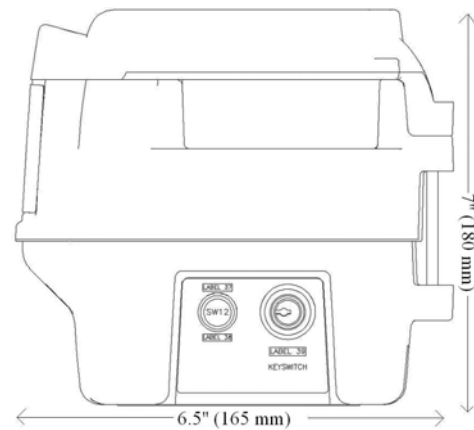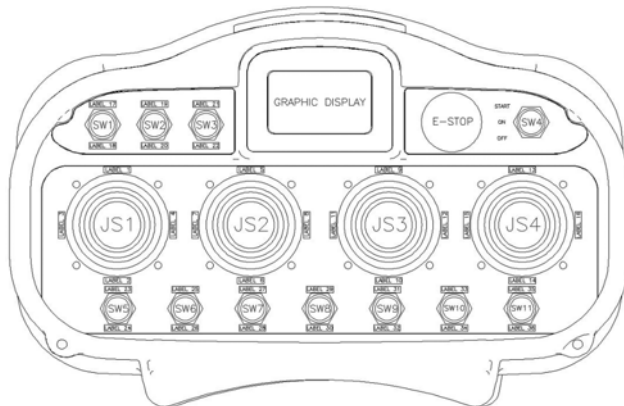## Q: What configurations are available?

A: The XLTX is available in a variety of configurations and is fully customizable to meet the needs of your application. Pre-engineered systems are also available which permit faster shipping and easy system setup.
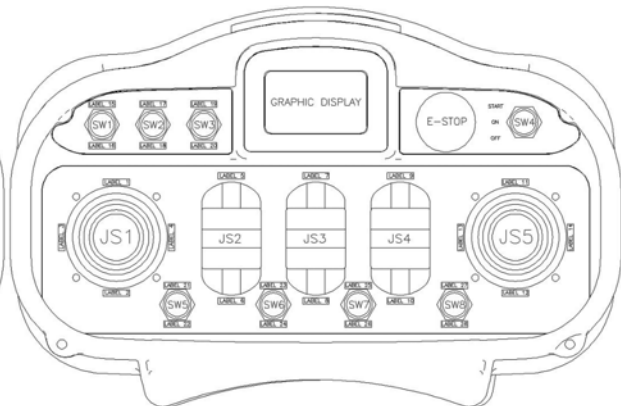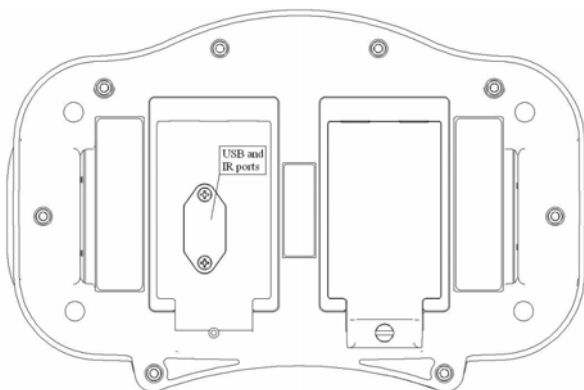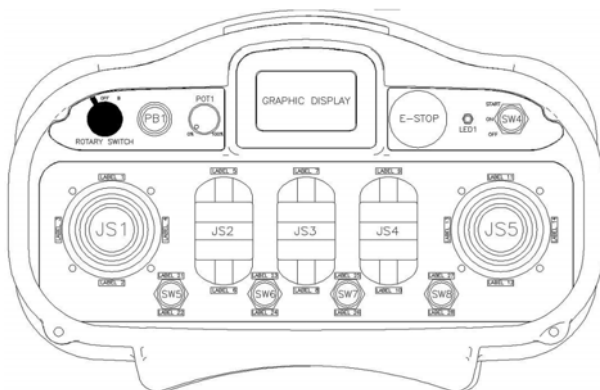

XLTX Configuration with 8 Paddles

XLTX with Keyswitch and Code Plug

XLTX with Joysticks

XLTX with Joysticks and Paddles

IR and USB Port Location

XLTX with Assorted Components

Q: What support is available for the Telemotive XLTX?

A: Magnetek will provide the same support our customers have come to expect with all of our control and power delivery products and automation systems:

1. Over-the-phone technical support—24 hours a day, 365 days a year.
2. Two-year warranty.
3. Fast turnaround on repaired products
4. Manual and product documentation available on the web.
5. Product instruction and troubleshooting available via our training course at our Menomonee Falls, WI facility or on your job site for a fee.

Please contact Eugene Novak, Radio Controls Product Manager, Don Schneider, Business Development Manager or Ben Stoller, Radio Controls Director, with any additional questions.

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